



REMARKS

Claims 1-3, 8 and 10-24 are presented for reconsideration.

In the Office Action, the drawings were objected to by the Draftsperson; claims 1-3, 8 and 10-24 were rejected under 35 USC 112, second paragraph; and claims 1-3, 8 and 10-24 were rejected under 35 USC 103 as being unpatentable over Olson et al in view of Rigney. In addition, U.S. Patents to Rickerby et al and Perdikaris were cited, but not applied.

With regard to the objection to the drawings, Formal Drawings will be submitted once the application has been allowed.

By this amendment, the specification has been amended on pages 2 and 3 to show that alitizing is an alternative expression for aluminizing. In addition, claim 1 has been amended to remove the indefiniteness concerning the adhesion layer mentioned in the rejection under 35 USC 112, second paragraph. These amendments are shown in the marked-up version attached as an appendix to this amendment.

With regard to the Examiner's concern about alitizing, it is noted that the present application is a National Stage of a PCT Application and, if the Examiner would look on page 2, line 20 of the German text, the word is "alitieren". This is translated to read "to alitize or to aluminize" (see attached page 34 of Dictionary of Chemistry and Chemical Engineering German/English Dictionary by De Vries et al). Thus, it is submitted that the insertions to pages 2 and 3 do not involve any new matter, since they are supported by the original German text of the PCT Application. It is also submitted that with regard to the Examiner's concern, as pointed out during a telephone conference, alitizing is a metallizing, such as a diffusion, which is well-known to persons of ordinary skill in the art. Thus, it is submitted that the disclosure does describe the invention so that a person of ordinary skill in the art can practice the invention and the disclosure does comply with 35 USC 112. Therefore, it is submitted that the rejection under 35 USC 112, second paragraph, is in error and should be withdrawn with regard to the claims.

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With regard to the prior art rejection, it is noted that Olson et al teaches metallizing a MCrAlY coating super-alloy by applying powder of the alloy with a flame-spraying technique onto the substrate. It is noted that in column 7, lines 40-45, the reference states that the MCrAlY coating can be applied by a plasma spraying, electron beam evaporation, electroplating, sputtering or slurry deposition. However, it is believed that this does not teach or suggest forming the alloy of the individual elements which are produced as a slip by mixing powders containing at least one of the elements of Cr, Ni and Ce with a binding agent, applying the slip on the component part, drying the slip and then aluminizing or alitizing the slip to form the adhesion layer. Thus, while the reference to Olson et al may teach or suggest coating with a similar alloy, it does not coat with a similar method as that recited in applicants' claims and, thus, does not have the advantages, as pointed out in applicants' disclosure, of allowing the slip to be easily applied in an inexpensive process.

The secondary reference to Rigney teaches using a slurry technique, but it is believed that these are slurries of alloys that are applied and not individual elements, as recited in applicants' claims. Also, while this reference may teach or suggest the subsequent step of drying, it is submitted that it does not teach or suggest applicants' invention. It is submitted that the combination of the two references is only suggested by applicants' disclosure and, thus, the rejection is based on a hindsight combination of the prior art, which is contrary to the Patent Laws. Also, it is submitted that there is no teaching or suggestion in the two references to suggest picking and choosing the various steps from one reference and combining it with the other while disregarding other steps. Therefore, it is submitted that the subject matter of claim 1 is not obvious to a person of ordinary skill in the art and that independent claim 1 and dependent claims 2, 3, 8 and 10-24 are patentable over the combination and are allowable.



In view of the amendments and explanations contained hereinabove, it is respectfully submitted that this application is now in condition for immediate formal allowance and further reconsideration to that end is earnestly solicited.

Respectfully submitted,

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DATED: July 16, 2001

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on July 16, 2001.

James D. Hobart

Name of Applicant's Attorney

James D. Hobart

Signature

July 16, 2001

Date



APPENDIX

Version with markings to show changes made.

IN THE SPECIFICATION:

Page 2, paragraph starting on line 12:

--The attainment of this object is inventively characterized by the steps:

- a) producing a slip by mixing powder containing at least one of the elements Cr, Ni or Ce with a binding agent;
- b) applying the slip onto the component part;
- c) drying the slip at temperatures from room temperature through 300°C; and
- d) alitizing [or calorizing] or aluminizing the slip layer to form an adhesive layer, whereby the method is controlled [such] so that the adhesion layer comprises a structure having a grain size less than 75µm and a cavity proportion from 0 through 40%.--

Page 3, paragraph starting at line 23:

--In a preferred development of the method, the final step of alitizing or aluminizing the slip layer is implemented at a temperature between 800 and 1200°C and a duration of 1 through 12 hours. The [alitizing] aluminizing serves the purpose of diffusion joining and compacting the layer and is implemented in a standard method such as, for example, in the powder pack method upon introduction of Al. The Al diffuses into the layer and into the basic material of the component part.--

IN THE CLAIMS:

--1. (Amended) Method for manufacturing an adhesion layer for a heat insulating layer that is applied onto a component part, the method comprising the steps:

- a) producing a slip by mixing [powder] powders containing at least one of the elements Cr, Ni or CE with a binding agent;



- b) applying the slip onto the component part;
- c) drying the slip at temperatures from room temperature through 300°C; and
- d) alitizing the slip layer to form the adhesion layer, whereby the method is controlled [such] so that the adhesion layer comprises a structure having a grain size less than 75µm and a cavity proportion from 0 through 40%.--

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L. De Vries · H. Kolb

Dictionary of Chemistry and Chemical Engineering

Second, revised and enlarged edition

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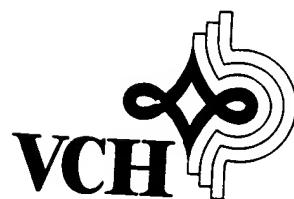


L. De Vries · H. Kolb

Wörterbuch der Chemie
und der
chemischen Verfahrenstechnik

Zweite,
überarbeitete und erweiterte Auflage

Band 1
Deutsch/Englisch



Aldehydammoniak *n* aldehyde ammonia
 Aldehydgerbung *f* (Gerb) aldehyde tannage
 Aldehydgrün *n* aldehyde green
 aldehydhaltig aldehydic, containing aldehyde
 Aldehydharz *n* aldehyde resin
 Aldehydin *n* aldehydine,
 2-ethyl-5-methylpyridine
 aldehydisch aldehydic
 Aldehydkondensation *f* aldehyde condensation
 Aldehydoxydase *f* (Biochem) aldehyde oxidase
 Aldehydsäure *f* aldehyde acid, aldehydic acid
 Aldehydverbindung *f* aldehyde compound
 Aldesulfon *n* aldesulfone
 Aldim *n* aldimine
 Aldimin *n* aldimine
 Aldiminchelat *n* aldimine chelate
 Aldobiuronsäure *f* aldobiuronic acid
 Aldohexose *f* aldohexose
 Aldoketen *n* aldoketene
 Aldol *n* aldol; acetaldo, oxybutyric aldehyde
 Aldolalphanaphthylamin *n* aldol
 alpha-naphthylamine
 Aldolase *f* (Biochem) aldolase
 Aldolkondensation *f* aldol condensation
 Aldomedon *n* aldomedone
 Aldonsäure *f* aldonic acid
 Aldopentose *f* aldopentose
 Aldose *f* aldose
 Aldosteron *n* aldosterone
 Aldotripiperidein *n* aldotripiperideine
 Aldoxim *n* aldoxime
 Aldrin *n* (Insektenmittel) aldrin
 Alectoronsäure *f* alectoronic acid
 Alepit *n* alepite
 Alepopinsäure *f* alepopinic acid
 Aleppokammwolle *f* (Text) Aleppo combings
 Alethein *n* aletheine
 Alethine *n* alethine
 Aleudrin *n* aleudrine
 Aleuritinsäure *f* aleuritic acid
 Aleurometer *n* aleurometer
 Aleuron *n* (Biol) aleurone
 Aleuronat *n* aleuronate
 aleuronhaltig aleuronic
 Alexandrit *m* (Min) alexandrite
 Alexin *n* alexin, cytase
 Alfa *f* (Bot) alfa [grass], esparto [grass]
 Alfagras *n* alfa [grass], alfalfa
 Alfafasaponin *n* alfafasaponin
 Alfalfol *n* alfalfol
 Alfapapier *n* (Buchdr) esparto paper
 Alfenid *n* alfenide
 Algamacrgrün *n* algama green
 Algarobilla *f* (Gerb) algaroba, algarobilla
 Algarotpulver *n* algaroth powder, antimony
 oxychloride, basic antimony chloride
 Alge *f* (Bot) alga (pl. algae), seaweed
 Algebra *f* (Math) algebra
 algebraisch algebraic

Algenbekämpfungsmittel *n* algicide
 Algenbildung *f* formation of algae
 Algenfaser *f* seaweed fiber
 Algenniederschlag *m* deposit of algae
 Algenschleim *m* mucus of algae
 Algerit *m* algerite
 Algin *n* algin, alginic acid
 Alginat *n* alginates
 Alginatfaser *f* algin fiber
 Alginäsäure *f* alginic acid
 Algizid *n* algicide
 Algodonit *m* (Min) algodonite
 Algolblau *n* algol blue
 Algolfarbe *f* algol-color
 Algolin *n* algoline
 alicyclisch alicyclic
 Alikantesoda *f* alicant soda
 Alimemazin *n* alimemazine
 aliphatisch aliphatic
 aliquant aliquant
 aliquot aliquot, proportional
 Alisonit *m* (Min) alisonite
 Alit *n* (Min) alite
 alitieren to alitize; to aluminize
 Alitieren *n* alitizing, aluminum diffusion coating
 Alival *n* alival
 Alizarin *n* 1,2-dihydroxy-anthraquinone,
 alizarin
 Alizarinaltrot *n* Turkey red
 Alizarinblau *n* alizarin blue, anthracene blue
 Alizarinbraun *n* alizarin brown, alizarin
 bordeaux, anthracene brown
 Alizarinfarbe *f* alizarin dye
 Alizarinfarblack *m* alizarin lake
 Alizingelb *n* alizarin yellow
 Alizarinkrapplack *m* alizarin madder lake
 Alizarinlack *m* alizarin lake
 Alizarinmonosulfonsäure *f* alizarin
 monosulfonic acid
 Alizarinneurot *n* alizarin new red
 Alizarinreinblau *n* alizarin sky blue
 Alizarinrot *n* alizarin red
 Alizarinsäure *f* (obs) alizarinic acid, phthalic
 acid
 Alizarinschwarz *n* alizarin black
 Alizarinsulfonsäure *f* alizarinsulfonic acid
 Alizurol *n* (Farbstoff, HN) alizurol
 alizyklisch alicyclic
 Alkaleszenz *f* alkalescence
 Alkali *n* alkali
 Alkalialbuminat *n* alkali albuminate
 Alkaliamalgam *n* alkali amalgam
 alkaliarm poor in alkali
 Alkaliatom *n* alkali atom
 alkalibeständig alkaliproof, alkali-resistant,
 resistant to alkali
 alkalibildend alkaligenous
 Alkalibindemittel *n* alkali-binding agent
 Alkaliblau *n* alkali blue

Alkalicellulose *f* al
 Alkalichlorid *n* alk
 Alkalichloridelekt
 electrolyser
 Alkalicyanid *n* alk
 alkaliecht fast to alk
 Alkaliechtfarbe *f* a
 Alkaliechtheit *f* alk
 Alkaliechtrot *n* alk
 alkaliempfindlich se
 Alkalien *p* alkalis
 alkafest alkali-pro
 alkali-resisting
 alkafrei alkali-free
 Alkaligehalt *m* alk
 alkalinity
 Alkaligestein *n* alk
 Alkalihalogenid *n* a
 Alkalihalogenidenkon
 of alkali halides
 Alkalihalogenidkris
 Alkalihalogenidschi
 alkalihaltig alkaline
 Alkalihalsterstellung *f*
 Alkalihumat *n* alka
 Alkalihydrat *n* alka
 Alkalihydroxid *n* al
 Alkaliindustrie *f* al
 Alkalikarbonat *n* a
 Alkalilauge *f* alkali
 alkalilöslich soluble
 Alkalilösung *f* alka
 Alkalimenge *f* amo
 Alkalimesser *m* alk
 Alkalimessung *f* alk
 Alkalimetall *n* alka
 Alkalimetallchelat *f*
 Alkalimetallion *n* a
 Alkalimeter *n* alkali
 Alkalimetrie *f* alk
 alkalimetrisch alkali
 Alkalinität *f* alkalin
 Alkaliphenolat *n* al
 Alkaliphosphat *n* al
 Alkaliphotozelle *f* a
 Alkaliquellung *f* sw
 alkaliraffiniert alka
 Alkalireserve *f* alka
 Alkalirückstand *m*
 Alkalisator *m* alkali
 alkalisch alkaline, -
 to alkalinize
 Alkalischmelze *f* alk
 Alkalisieranlage *f* a
 alkalisierbar alkalin
 alkalisieren to alkali
 alkaline, to treat w
 Alkalisieren *n* alkali
 Alkalisierung *f* alka